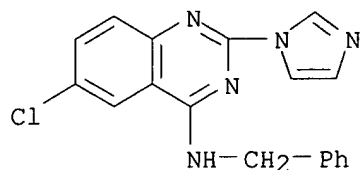


4-phenylmethylamino-6-chloro-2-(1-imidazolyl)-quinazoline

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **157863-27-9** REGISTRY
ED Entered STN: 23 Sep 1994
CN 4-Quinazolinamine, 6-chloro-2-(1H-imidazol-1-yl)-N-(phenylmethyl)- (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF **C18 H14 Cl N5**
CI COM
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



↑
CA Registry
name for
the same
compound

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

→ (attached)
f.y.i.

=> file reg
FILE 'REGISTRY' ENTERED AT 17:36:09 ON 11 JUL 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 10 JUL 2005 HIGHEST RN 854370-36-8
DICTIONARY FILE UPDATES: 10 JUL 2005 HIGHEST RN 854370-36-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> file caplus
FILE 'CAPLUS' ENTERED AT 17:36:12 ON 11 JUL 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
American Chemical Society and is provided to assist you in searching
databases on STN. Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 11 Jul 2005 VOL 143 ISS 3
FILE LAST UPDATED: 10 Jul 2005 (20050710/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d que L9

L4 38 SEA FILE=REGISTRY ABB=ON PLU=ON (118-92-3/BI OR 120-73-0/BI OR 127488-00-0/BI OR 12766-00-6/BI OR 127957-37-3/BI OR 128173-55-7/BI OR 132737-08-7/BI OR 134485-90-8/BI OR 15018-66-3/BI OR 150452-18-9/BI OR 152712-47-5/BI OR 153447-99-5/BI OR 157863-27-9/BI OR 158001-76-4/BI OR 158001-83-3/BI OR 159687-16-8/BI OR 179042-24-1/BI OR 179042-25-2/BI OR 179042-26-3/BI OR 179042-27-4/BI OR 179042-28-5/BI OR 179042-29-6/BI OR 179042-30-9/BI OR 179042-31-0/BI OR 19006-82-7/BI OR 253-82-7/BI OR 254-61-5/BI OR 275-94-5/BI OR 289-95-2/BI OR 315-30-0/BI OR 33643-94-6/BI OR 37294-42-1/BI OR 51-17-2/BI OR 591-54-8/BI OR 6025-68-9/BI OR 73-40-5/BI OR 79030-08-3/BI OR 9068-52-4/BI)

L5 14 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND NCNC2/ESS

L6 8 SEA FILE=REGISTRY ABB=ON PLU=ON L5 AND NCNC3/ESS

L7 5 SEA FILE=REGISTRY ABB=ON PLU=ON L6 AND C6/ESS

L8 1 SEA FILE=REGISTRY ABB=ON PLU=ON L7 AND CL>0

L9 5 SEA FILE=CAPLUS ABB=ON PLU=ON L8

=> d L9 ibib abs hitind hitstr 1-5

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:441612 CAPLUS

DOCUMENT NUMBER: 133:63991

TITLE: cGMP phosphodiesterase 5 inhibitors for inhalation in the treatment of sexual dysfunction

INVENTOR(S): Naef, Reto

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000037061	A2	20000629	WO 1999-EP10250	19991221
WO 2000037061	A3	20001026		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2355368	AA	20000629	CA 1999-2355368	19991221
EP 1140044	A2	20011010	EP 1999-964644	19991221
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002532542	T2	20021002	JP 2000-589172	19991221
US 2001055570	A1	20011227	US 2001-883572	20010618
US 2004214831	A1	20041028	US 2004-851603	20040521
PRIORITY APPLN. INFO.:			GB 1998-28340	A 19981222
			WO 1999-EP10250	W 19991221

US 2001-883572 A1 20010618

AB Treatment of sexual dysfunction is carried out by inhalation of a cGMP PDE 5 inhibitor, especially, 5-[2-ethoxy-5-(4-methylpiperazinylsulfonyl)phenyl]-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one (I), 4-phenylmethylamino-6-chloro-2-(1-imidazolyl)quinazoline, 4-phenylmethylamino-6-chloro-2-(3-pyridyl)quinazoline, 1,3-dimethyl-6-(2-propoxy-5-methanesulfonylamidophenyl)-1,5-dihydropyrazolo[3,4-d]pyrimidin-4-one or 1-cyclopentyl-3-ethyl-6-(3-ethoxy-4-pyridyl)pyrazolo[3,4-d]pyrimidin-4-one. Gelatin capsules suitable for use in a capsule inhaler are prepared, each capsule containing a dry powder consisting of 10 mg I, which had been ground to a mean particle diameter of 1-5 μm , and 10 mg of lactose monohydrate having a particle diameter below 212 μm . These capsules are used in the treatment of erectile dysfunction patients by inserting a capsule into the capsule chamber of an inhaler.

IC ICM A61K031-00

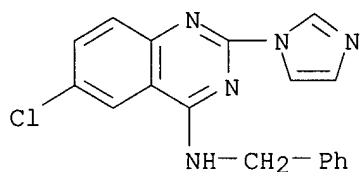
CC 63-6 (Pharmaceuticals)

IT 139755-83-2 157862-73-2 **157863-27-9** 158020-82-7
168464-34-4
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (cGMP phosphodiesterase inhibitors for inhalation in treatment of sexual dysfunction)

IT **157863-27-9**
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (cGMP phosphodiesterase inhibitors for inhalation in treatment of sexual dysfunction)

RN 157863-27-9 CAPLUS

CN 4-Quinazolinamine, 6-chloro-2-(1H-imidazol-1-yl)-N-(phenylmethyl)- (9CI)
(CA INDEX NAME)



L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:458023 CAPLUS

DOCUMENT NUMBER: 125:105160

TITLE: Inhibitors of cGMP phosphodiesterase for the treatment of erectile dysfunction and other disorders

INVENTOR(S): Campbell, Simon Fraser; Mackenzie, Alexander Roderick; Wood, Anthony

PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Research and Development Company, N.V./s.A.; Pfizer Inc.

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

WO 9616644	A1	19960606	WO 1995-EP4066	19951016
W: CA, FI, JP, MX, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2203379	AA	19960606	CA 1995-2203379	19951016
EP 793486	A1	19970910	EP 1995-936507	19951016
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 09512834	T2	19971222	JP 1995-517126	19951016
JP 2975990	B2	19991110		
JP 11343238	A2	19991214	JP 1999-105626	19951016
US 6300335	B1	20011009	US 1997-836670	19970522
FI 9702205	A	19970523	FI 1997-2205	19970523
US 2001044441	A1	20011122	US 2001-880141	20010613
US 6656945	B2	20031202		
JP 2004091490	A2	20040325	JP 2003-308939	20030901
US 2004087599	A1	20040506	US 2003-694644	20031027
PRIORITY APPLN. INFO.:				
			GB 1994-23910	A 19941126
			JP 1996-517126	A3 19951016
			JP 1999-105626	A3 19951016
			WO 1995-EP4066	W 19951016
			US 1997-836670	A3 19970522
			US 2001-880141	A3 20010613

AB Compds. which are selective inhibitors of cGMP phosphodiesterase are useful in the treatment of erectile dysfunction (impotence) in male animals, including man. The cGMP phosphodiesterase inhibitors can also be used to treat female sexual dysfunction, premature labor, or dysmenorrhea. Specific compds., as well as compds. from other patents, are claimed.

IC ICM A61K031-00

CC 1-12 (Pharmacology)

IT 51-17-2D, Benzimidazole, derivs. 73-40-5D, Guanine, derivs. 118-92-3D, Anthranilic acid, derivs. 120-73-0D, Purine, derivs. 253-82-7D, Quinazoline, derivs. 254-61-5D, Pyrido[2,3-d]pyrimidine, derivs. 275-94-5D, Cycloheptimidazole, derivs. 289-95-2D, Pyrimidine, derivs. 315-30-0D, derivs. 591-54-8D, 4-Aminopyrimidine, derivs. 6025-68-9D, Pyrrolo[1,2-a]quinoxalin-4(5H)-one, derivs. 12766-00-6D, Quinazolinone, derivs. 15018-66-3D, 4-Aminoquinazoline, derivs. 19006-82-7D, derivs. 33643-94-6D, derivs. 37294-42-1D, Imidazoquinazoline, derivs. 79030-08-3D, Griseolic acid, derivs. 127488-00-0 127957-37-3 128173-55-7 132737-08-7 134485-90-8 150452-18-9 152712-47-5 153447-99-5 **157863-27-9** 158001-76-4 158001-83-3 159687-16-8 179042-24-1D, derivs. 179042-25-2D, derivs. 179042-26-3D, Imidazo[1,5-a]quinoxalin-4(5H)-one, derivs. 179042-27-4 179042-28-5 179042-29-6 179042-30-9 179042-31-0

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cGMP phosphodiesterase inhibitors for treatment of erectile dysfunction and other disorders)

IT **157863-27-9**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cGMP phosphodiesterase inhibitors for treatment of erectile dysfunction and other disorders)

RN 157863-27-9 CAPLUS

CN 4-Quinazolinamine, 6-chloro-2-(1H-imidazol-1-yl)-N-(phenylmethyl)- (9CI)
(CA INDEX NAME)